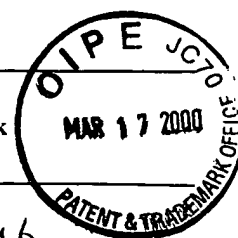


Form PTO-1449 (modified)		Atty. Docket No. UTSD:602/WIM	Serial No. 09/396,985
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Bruce A. Beutler and Alexander Poltorak	
		Filing Date: September 15, 1999	Group: 1643/646
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 2	



U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
N 53	A1	4,215,051	7-29-80	Schroeder <i>et al.</i>	260	346.7	8-29-79
	A2	4,554,101	11-19-85	Hopp	260	112.5	1-28-83
	A3	4,603,102	7-29-86	Himmelmann <i>et al.</i>	430	523	6-26-85
	A4	4,683,195	7-28-87	Mullis <i>et al.</i>	435	6	2-7-86
	A5	4,683,202	11-27-90	Mullis	435	91	10-25-85
	A6	4,800,159	1-24-89	Mullis <i>et al.</i>	435	172.3	12-17-86
	A7	4,883,750	11-28-89	Whiteley <i>et al.</i>	435	6	12-13-84
	A8	5,464,937	11-7-95	Sims <i>et al.</i>	530	350	5-13-94
	A9	5,488,032	1-30-96	Dower <i>et al.</i>	514	2	6-17-92
	A10	5,508,262	4-16-96	Norman, Jr.	514	8	12-15-93
	A11	5,608,035	3-4-97	Yanofsky <i>et al.</i>	530	324	2-2-94
	A12	5,726,148	3-10-98	Katoh <i>et al.</i>	514	2	7-7-95
	A13	5,767,064	6-16-98	Sims <i>et al.</i>	514	2	5-16-95
	A14	5,767,234	6-16-98	Yanofsky <i>et al.</i>	530	327	2-1-95
	A15	5,776,731	7-7-98	Parnet <i>et al.</i>	435	69.1	2-21-96
	A16	5,786,331	7-28-98	Barret <i>et al.</i>	514	15	6-5-95

FOREIGN PATENT DOCUMENTS

EXAM INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
mm	B1	WO 90/07641	7-12-90	PCT			

EXAMINER:

Nirmal S. Bop

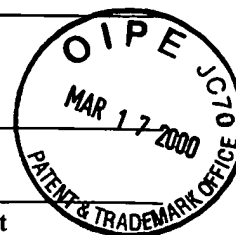
DATE CONSIDERED:

7/31/02

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)		Atty. Docket No. UTSD:602/WIM	Serial No. 09/396,985
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Bruce A. Beutler and Alexander Poltorak	
		Filing Date: September 15, 1999	Group: 1643 / 646
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 2	



FOREIGN PATENT DOCUMENTS

EXAM INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
Nib	B2	WO 89/06700	7-27-89	PCT	-	-	-
J	B3	EP 320 308	6/14/89	Europe	-	-	-
J	B4	EP 329 822	10/17/90	Europe	-	-	-

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
Nib	C1	Bell, <i>et al.</i> , "A high-resolution map of the brown (<i>b</i> , <i>Tyrp1</i>) deletion complex of mouse Chromosome 4," <i>Mammalian Genome</i> . 6, 389-395, 1995.
	C2	Beutler <i>et al.</i> , "Cachectin/tumor necrosis factor: Production, distribution and metabolic fate in vivo," <i>J. Immunol.</i> , 135:3972-3977, 1985.
	C3	Beutler <i>et al.</i> , "Passive immunization against cachectin/tumor necrosis factor protects mice from lethal effect of endotoxin," <i>Science</i> , 229:869-871, 1985.
	C4	Beutler <i>et al.</i> , "Control of cachectin (tumor necrosis factor) synthesis: mechanisms of endotoxin resistance," <i>Science</i> , 232:977-980, 1986.
	C5	Burn <i>et al.</i> , "Increased exon-trapping efficiency through modifications to the pSPL3 splicing vector," <i>Gene</i> . 161, 183-187, 1995.
	C6	Chaudhary <i>et al.</i> "Cloning and characterization of two toll/interleukin-1 receptor-like genes TIL3 and TIL4: evidence for a multi-gene receptor family in humans," <i>Blood</i> . 91, 4020-4027, 1998.
	C7	Cseh and Beutler, "Alternate cleavage of the cachectin/tumor necrosis factor propeptide results in a larger, inactive form of secreted protein," <i>J.Biol.Chem.</i> 264, 16256-16260, 1989.
	C8	Geppert <i>et al.</i> , "Lipopolysaccharide signals activation of tumor necrosis factor biosynthesis through the ras/raf-1/MEK/MAPK pathway," <i>Mol. Med.</i> , 1:93-103, 1994.
J	C9	Gerard, "For whom the bell tolls," <i>Nature</i> , 395:217-219, 1998.

EXAMINER: Nimal S. Bari

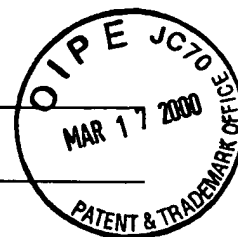
DATE CONSIDERED:

7/31/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)		Atty. Docket No. UTSD:602/WIM	Serial No. 09/396,985
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Bruce A. Beutler and Alexander Poltorak	
		Filing Date: September 15, 1999	Group: 1643/1646
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 2	



Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
N19	C10	Han <i>et al.</i> , "Endotoxin-responsive sequences control cachectin/tumor necrosis factor biosynthesis at the translation level," <i>J. Exp. Med.</i> , 171:465-475, 1990.
	C11	Hayes and Zoon, "Priming of human monocytes for enhanced lipopolysaccharide responses: expression of alpha interferon, interferon regulatory factors, and tumor necrosis factor," <i>Infect. Immun.</i> , 61:3222-3227, 1993.
	C12	Haziot <i>et al.</i> , "Resistance to endotoxin shock and reduced dissemination of gram-negative bacteria in CD 14-deficient mice," <i>Immunity</i> , 4:407-414, 1996.
	C13	Heine <i>et al.</i> , "Cutting edge: cells that carry a null allele for toll-like receptor 2 are capable of responding to endotoxin," <i>J. Immunology</i> , 162:6971-6975, 1999.
	C14	Hirsch <i>et al.</i> , "Identification of positive and negative regulatory elements governing cell-type-specific expression of the neural cell adhesion molecule gene," <i>Mol Cell Biol.</i> 1990 May; 10(5): 1959-1968, 1990.
	C15	Hoshino <i>et al.</i> , "Cutting Edge: Toll-Like Receptor 4 (TLR4) - Deficient Mice Are Hyporesponsive to Lipopolysaccharide: Evidence for TLR4 as the <i>Lps</i> Gene Product," <i>Journal of Immunology</i> , 162:3749-3752, 1999.
	C16	Hu <i>et al.</i> , "Resistance to salmonellosis in the chicken is linked to NRAMPI and TNC," <i>Genome Research</i> . 7, 693-704, 1997
	C17	Kawai <i>et al.</i> , "Unresponsiveness of MyD88-deficient mice to endotoxin," <i>Immunity</i> , 11(1):115-122, 1999.
	C18	Kirkland <i>et al.</i> , Identification of lipopolysaccharide-binding proteins in 70Z/3 cells of photoaffinity cross-linking," <i>J. Biol. Chem.</i> , 265:9520-9525, 1990.
	C19	Kirschning <i>et al.</i> , "human toll-like receptor 2 confers responsiveness to bacterial lipopolysaccharide," <i>J. Exp. Med.</i> , 188:2091-2097, 1998.
	C20	Kruys <i>et al.</i> , "Constitutive activity of the tumor necrosis factor promoter is canceled by the 3' untranslated region in nonmacrophage cell lines; a transdominant factor overcomes this suppressive effect," <i>Proc. Natl. Acad. Sci. USA</i> , 89:673-677, 1992.

EXAMINER:

N. med S. Ban

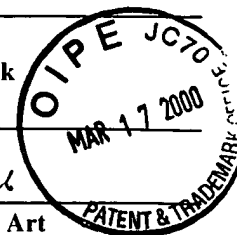
DATE CONSIDERED:

7/31/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)		Atty. Docket No. UTSD:602/WIM	Serial No. 09/396,985
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Bruce A. Beutler and Alexander Poltorak	
		Filing Date: September 15, 1999	Group: 1643/1646
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 2	



Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
10/1	C21	Kuhns et al., "Endotoxin and IL-1 hyporesponsiveness in a patient with recurrent bacterial infections," ABSTRACT, <i>J. Immunol.</i> 158, 3959-3964, 1997.
	C22	Lemaitre et al., "The dorsoventral regulatory gene cassette <i>spatzle/Toll/cactus</i> controls the potent antifungal response in <i>Drosophila</i> adults," <i>Cell.</i> 86, 973-983, 1996.
	C23	Macela et al., "The immune response against <i>Francisella tularensis</i> live vaccine strain in <i>Lps</i> ⁿ and <i>Lps</i> ^d mice," <i>FEMS Immunol. Med. Microbiol.</i> 13, 235-238, 1996
	C24	Matsuura and Galanos, "Induction of hypersensitivity to endotoxin and tumor necrosis factor by sublethal infection with <i>Salmonella typhimurium</i> ," <i>Infect. Immun.</i> , 58:935-937, 1990.
	C25	Medzhitov et al., "A human homologue of the <i>Drosophila</i> Toll protein signals activation of adaptive immunity," <i>Nature</i> , 388:394-397, 1997.
	C26	Medzhitov et al., "MyD88 is an adaptor protein in the hToll/IL-1 receptor family signaling pathways," <i>Molecular Cell</i> , 2:253-258, 1998.
	C27	Modlin et al., "The toll of innate immunity on microbial pathogens," <i>N. Engl. J. Med.</i> , 340:1834-1835, 1999.
	C28	Muzio et al., "The human toll signaling pathway: divergence of nuclear factor κB and JNK/SAPK activation upstream of tumor necrosis factor receptor-associated factor 6 (TRAF6)," <i>J. Exp. Med.</i> 187, 2097-2101, 1998.
	C29	Poltorak et al., "Genetic and physical mapping of the <i>Lps</i> locus: identification of the Toll-4 receptor as a candidate gene in the critical region," <i>Blood Cells Molecules & Diseases</i> , 240(170):340-355, 1998.
	C30	Poltorak et al., "Defective LPS signaling in C3H/HeJ and C57BL/10ScCr mice: mutations in <i>Tlr4</i> gene," <i>Science</i> , 282:2085-2088, 1998.
	C31	Qureshi et al., "Endotoxin-tolerant mice have mutations in toll-like receptor 4 (<i>Tlr4</i>)," <i>J Exp. Med.</i> , 189:615-625, 1999.
	C32	Rock et al., "A family of human receptors structurally related to <i>Drosophila</i> Toll," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 95, 588-593, 1998.

EXAMINER:

Nirmal S. Ban

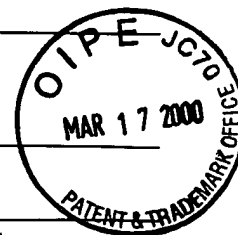
DATE CONSIDERED:

7/7/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)		Atty. Docket No. UTSD:602/WIM	Serial No. 09/396,985
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Bruce A. Beutler and Alexander Poltorak	
		Filing Date: September 15, 1999	Group: 1643-1666
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 2	



Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
NSB	C33	Rommens et al., In: Hochgeschwender, U., Gardiner, K., eds., <i>Identification of Transcribed Sequences</i> , "Towards a transcriptional map of the q21-q22 region of chromosome 7," New York, N.Y., Plenum Press, 1998, p. 65
	C34	Rosetto et al., "Signals from the IL-1 receptor homolog, toll, can activate an immune response in a <i>drosophila</i> hemocyte cell line," <i>Biochem. Biophys. Res. Commun.</i> 209, 111-116, 1995.
	C35	Schneider et al., "Dominant and recessive mutations define functional domains of <i>Toll</i> , a transmembrane protein required for dorsal-ventral polarity in the <i>Drosophila</i> embryo," <i>Genes Dev.</i> , 5:797-807, 1991.
	C36	Shimazu et al., "MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4," <i>J. Exp. Med.</i> , 189(11):1777-1782, 1999.
	C37	Tracey et al., "Shock and tissue induced by recombinant human cachectin," <i>Science</i> , 234:470-474, 1986.
	C38	Vogel et al., "Construction of a BALB/c congenic mouse, C.C3H- <i>Lps</i> ^d , that expresses the <i>Lps</i> ^d allele: analysis of chromosome 4 markers surrounding the <i>Lps</i> gene," <i>Infect. Immun.</i> 62, 4454-4459, 1994
	C39	Wright et al., "CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein," <i>Science</i> , 249:1431-1433, 1990.
	C40	Yang et al., "Toll-like receptor-2 mediates lipopolysaccharide-induced cellular signalling," <i>Nature</i> , 395:284-288, 1998.

EXAMINER: Nirmal S. Bani

DATE CONSIDERED: 7/3/10

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)